

Claims amended 19.12.2005

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CLAIMS

1. Cold sealable barrier paper consisting of an actual support paper (1) printed on the face side thereof and having a sealable layer (3) on the whole or
5 on one part of the reverse side thereof, **characterized** in that it further consists, on the face side thereof, of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65.

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2. Cold sealable barrier paper consisting of an actual support paper (1) printed on the face side thereof and having a sealable layer (3) on the whole or on one part of the reverse side thereof, **characterized** in that it further consists, on the face side thereof, of a water vapour barrier layer (4) consisting of a
15 mixture of acrylic polymers and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and of at least one oxygen aroma barrier layer (5) between the printing (2) and the water vapor barrier layer (4), or between the actual support paper and the sealable layer, the oxygen aroma barrier layer (5)
20 consisting of ethylene/vinyl alcohol (EVOH) copolymer or polyvinyl alcohol (PVA) polymer, the mass of which is between 3 and 4 g/m².

3. Cold sealable barrier paper consisting of an actual support paper (1) printed on the face side thereof and having a sealable layer (3) on the whole or
25 on one part of the reverse side thereof, **characterized** in that it further consists, on the face side thereof, of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and the mixture comprising less than 5% of wax by weight,
30 and of at least one oxygen aroma barrier layer (5) between the printing (2) and the water vapor barrier layer (4), or between the support paper (1) and the sealable layer (3), the oxygen aroma barrier layer (5) consisting of ethylene/vinyl

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alcohol (EVOH) copolymer or polyvinyl alcohol (PVA) polymer as a mixture with other polymers or as a mixture with mineral fillers, the EVOH or PVA representing at least 50 % by weight of the layer.

- 5 4. Cold sealable barrier paper according to any of claims 1 to 3, **characterized** in that the water vapour barrier layer is positioned directly in contact with the printing and has a mass of between 2 and 10 g/m² as humid matter.
- 10 5. Cold sealable barrier paper according to any of claims 1 to 4, **characterized** in that the sealable layer is positioned directly in contact with the whole or one part of the reverse side of the actual paper.
6. Cold sealable barrier paper according to any of claims 1 to 5,
15 **characterized** in that the mixture of acrylic polymers as an emulsion is a mixture of styrene acrylic polymers.
7. Cold sealable barrier paper according to any of claims 1 to 6, **characterized** in that the mixture of acrylic polymers further contains from 2 to
20 10 % by weight of resin.
8. Cold sealable barrier paper according to any of claims 1 to 7, **characterized** in that the mixture of acrylic polymers represents 100 % by dry weight of the layer.
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9. Cold sealable barrier paper according to claim 2, **characterized** in that the ethylene/vinyl alcohol (EVOH) copolymer or the polyvinyl alcohol (PVA) represents 100 % by dry weight of the layer.
- 30 10. Heat sealable barrier paper consisting of an actual support paper (1) printed or printable on the face side thereof, **characterized** in that it consists, at least on its reverse side, of a heat sealable layer and water vapour barrier layer

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(4), said water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65.

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11. Heat sealable barrier paper consisting of an actual support paper (1) printed or printable on the face side thereof, **characterized** in that it consists, at least on its reverse side, of a heat sealable layer and water vapour barrier layer (4), the water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and of an oxygen aroma barrier layer (5) between the actual paper (1) and the water vapour barrier layer (4), the oxygen aroma barrier layer (5) consisting of ethylene/vinyl alcohol (EVOH) copolymer and polyvinyl alcohol (PVA) polymer, the mass of which is between 3 and 4 g/m².

12. Heat sealable barrier paper consisting of an actual support paper (1) printed or printable on the face side thereof, **characterized** in that it consists, at least on its reverse side, of a heat sealable layer and water vapour barrier layer (4), the water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and of an oxygen aroma barrier layer (5) between the actual paper (1) and the water vapour barrier layer (4), the oxygen aroma barrier layer (5) consisting of ethylene/vinyl alcohol (EVOH) copolymer and polyvinyl alcohol (PVA) polymer as a mixture with other polymers or as a mixture with mineral fillers, the EVOH or PVA representing at least 50 % by weight of the layer.

13. Heat sealable barrier paper according to any of claims 10 to 12, **characterized** in that said heat sealable layer and water vapour barrier layer is a unitary layer having both heat sealable and water vapour barrier properties.

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14. Heat sealable barrier paper according to any of claims 10 to 12, **characterized** in that it further contains a second water vapour barrier layer deposited directly on the printing.

5 15. Heat sealable barrier paper according to any of claims 10 to 14, **characterized** in that the mixture of acrylic polymers as an emulsion is a mixture of styrene acrylic polymers..

10 16. Heat sealable barrier paper according to any of claims 10 to 15, **characterized** in that the mixture of acrylic polymers further contains from 2 to 10 % by weight of resin.

15 17. Heat sealable barrier paper according to any of claims 10 to 12, **characterized** in that the mixture of acrylic polymers represents 100% by dry weight of the layer.

20 18. Heat sealable barrier paper according to claim 11, **characterized** in that the ethylene/vinyl alcohol (EVOH) copolymer or polyvinyl alcohol (PVA) represents 100 % by dry weight of the layer.

25 19. Confectionery barrier paper consisting of an actual twistable support paper (1) printed on the face side thereof, **characterized** in that it further consists, directly in contact with the printing (2), of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65.

30 20. Confectionery barrier paper consisting of an actual twistable support paper (1) printed on the face side thereof, **characterized** in that it further consists of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and

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65, and of at least one oxygen and aroma barrier layer (5) consisting of an ethylene/vinyl alcohol (EVOH) copolymer or a polyvinyl alcohol (PVA) polymer, the mass of which is between 3 and 4 g/m², positioned between the water vapour barrier layer (4) and the printing (2).

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21. Confectionery barrier paper consisting of an actual twistable support paper (1) printed on the face side thereof, characterized in that it further consists of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and of at least one oxygen and aroma barrier layer (5) consisting of an ethylene/vinyl alcohol (EVOH) copolymer or a polyvinyl alcohol (PVA) polymer as a mixture with other polymers or as a mixture with mineral fillers, the EVOH or PVA representing at least 50 % by weight of the layer, the mass of which is between 3 and 4 g/m², positioned between the water vapour barrier layer (4) and the printing (2).

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22. Confectionery barrier paper consisting of an actual twistable support paper printed on the face side thereof, characterized in that it further consists, directly in contact with the printing (2), of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, and of a paraffin layer (7) having a mass of 2 – 6 g/m² on the reverse side of the support paper (1).

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23. Confectionery barrier paper consisting of an actual twistable support paper printed on the face side thereof, characterized in that it further consists of a water vapour barrier layer (4) consisting of a mixture of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and 65, of at least one oxygen and aroma barrier layer (5) consisting of an ethylene/vinyl alcohol (EVOH) copolymer or a polyvinyl alcohol (PVA) polymer, the mass of which is

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between 3 and 4 g/m², positioned between the water vapour barrier layer (4) and the printing (2), and of a paraffin layer (7) having a mass of 2 – 6 g/m² on the reverse side of the support paper (1).

5 24. Confectionery barrier paper consisting of an actual twistable support paper (1) printed on the face side thereof, **characterized** in that it further consists of a water vapour barrier layer (4) consisting of a mixture o of acrylic polymers, and less than 5% of wax by weight, which has been applied as an emulsion, the total acid number of the acrylic polymers being between 30 and
10 65, of at least one oxygen and aroma barrier layer (5) consisting of an ethylene/vinyl alcohol (EVOH) copolymer or a polyvinyl alcohol (PVA) polymer as a mixture with other polymers or as a mixture with mineral fillers, the EVOH or PVA representing at least 50 % by weight of the layer, the mass of which is
15 between 3 and 4 g/m², positioned between the water vapour barrier layer (4) and the printing (2), and of a paraffin layer (7) having a mass of 2 – 6 g/m² on the reverse side of the support paper (1).

25. Confectionery paper according to any of claims 19 to 24, **characterized** in that the mixture of acrylic polymers as an emulsion is a mixture of styrene
20 acrylic polymers.

26. Confectionery paper according to any of claims 19 to 24, **characterized** in that the mixture of acrylic polymers further contains from 2 to 10 % by weight of resin.
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27. Confectionery paper according to any of claims 19 to 24, **characterized** in that the mixture of acrylic polymers represents 100 % by dry weight of the layer.

30 28. Confectionery paper according to any of claims 20 or 23, **characterized** in that the ethylene/vinyl alcohol (EVOH) copolymer or polyvinyl alcohol (PVA) represents 100 % by dry weight of the layer.